

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-2. (canceled)

3. (currently amended) A method for manufacturing metallic material having a chromium-oxide passivation film formed thereon, comprising the steps of:

depositing a coating material consisting of chromium by a wet plating method onto a metallic material with a surface roughness (Ra) of not more than 1.5 μ m;

baking said chromium-coated metallic material formed by the wet plating method at a temperature of 100 °C to 200°C in a high-purity inert gas atmosphere; and

applying a heat treatment to said chromium-coated metallic material in an oxidizing atmosphere so as to form a chromium-oxide passivation film on said metallic material, said film having a depth and an outermost surface, said film consisting of Cr₂O₃ at a depth approximately 30nm from the outermost surface, and said film providing resistance to highly degradable and corrosive gases.

4. (canceled)

5. (previously presented) The method according to claim 3, wherein said oxidizing atmosphere comprises oxygen diluted by an inert gas.

6. (previously presented) The method according to claim 3, wherein the highly degradable and corrosive gases are silane, diborane, or phosphine.